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**PATENT APPLICATION**

**SIEMENS Corporation**

IPD-West Coast  
1220 Charleston Road  
P.O. Box 7393  
Mountain View, CA 94039-7393

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

THE ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

J1036 U.S. PTO  
09/990844  
11/21/01

**TRANSMITTAL LETTER FOR NEW APPLICATION**

Sir:

Transmitted herewith for filing is a(n) ☒ (X) Original patent application.  
☒ (X) Utility ☐ ( ) Design ☐ ( ) Continuation-in-part application

INVENTORS: Thomas Klingenbrunn, Lichung Chu, Antoine J. Rouphael, Benny Vejlgard

TITLE: Tap-Selectable Viterbi Equalizer

Enclosed with this transmittal and its duplicate are the following:

- (X) Seventeen (17) page specification (21 Claims).
- (X) Four (4) sheets of drawings (X) informal drawings (one set)
- (X) The Declaration and Power of Attorney ☒ (X) signed
- (X) Assignment and Recordation Request
- (X) IDS and PTO Form
- (X) Filing fee has been calculated as shown below (other than small entity):

| For  | Number Filed | Number Extra | Rate             | Additional Fees |
|--|--------------|--------------|------------------|-----------------|
| Total Claims   | 21 - 20      | = 0          | x \$ 18          | \$ -0-          |
| Indep. Claims  | 5 - 3        | = 2          | x \$ 80          | \$ 160.00       |
| ( ) First Presentation of a Multiple Dependent Claim |              |              | x \$260          | \$ 0.00         |
|  |              |              | Basic filing Fee | \$ 740.00       |
| Total  |              |              |                  | \$ 900.00       |

Please charge my Deposit Account No. 19-2179 in the amount of \$900.00. The Commissioner is hereby authorized to charge any fees that may be required, or credit any overpayment to Deposit Account No. 19-2179 pursuant to 37 CFR 1.25. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

*Heather S. Vance*

Heather S. Vance, Reg. No. 39,033  
on behalf of Rosa S. Kim, Reg. No. 39,728

Date: November 21, 2001  
Telephone: (650) 694-5330

| Parameter             | Value   | Unit |
|-----------------------|---|------|
| Initial concentration | 1.0   | g/L  |
| Initial pH            | 7.0   |      |
| Temperature           | 25  | °C   |
| Time                  | 0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329 |      |